

FIBER RENDERING APPARATUS

ABSTRACT OF THE DISCLOSURE

For the purpose of preventing a situation in which the fiber density looks
5 as if it suddenly decreases in a specific view direction, a method comprises:
specifying a region of interest R1 in MR image data collected by a diffusion
tensor method; defining regular grid points in the region of interest R1; defining
points obtained by randomly moving the grid points as tracking start points S1,
S2, ...; performing diffusion tensor analysis on each tracking start point S1, S2, ...
10 in the image data to determine a direction of a principal axis vector; tracking a
fiber by repeatedly selecting a neighbor point along the direction of the principal
axis vector and performing diffusion tensor analysis on the neighbor point to
determine the direction of the principal axis vector; and producing and
displaying an image of the tracked fibers as viewed in a desired view direction.